

International Conference and Exhibition

# SIA PARIS 2021

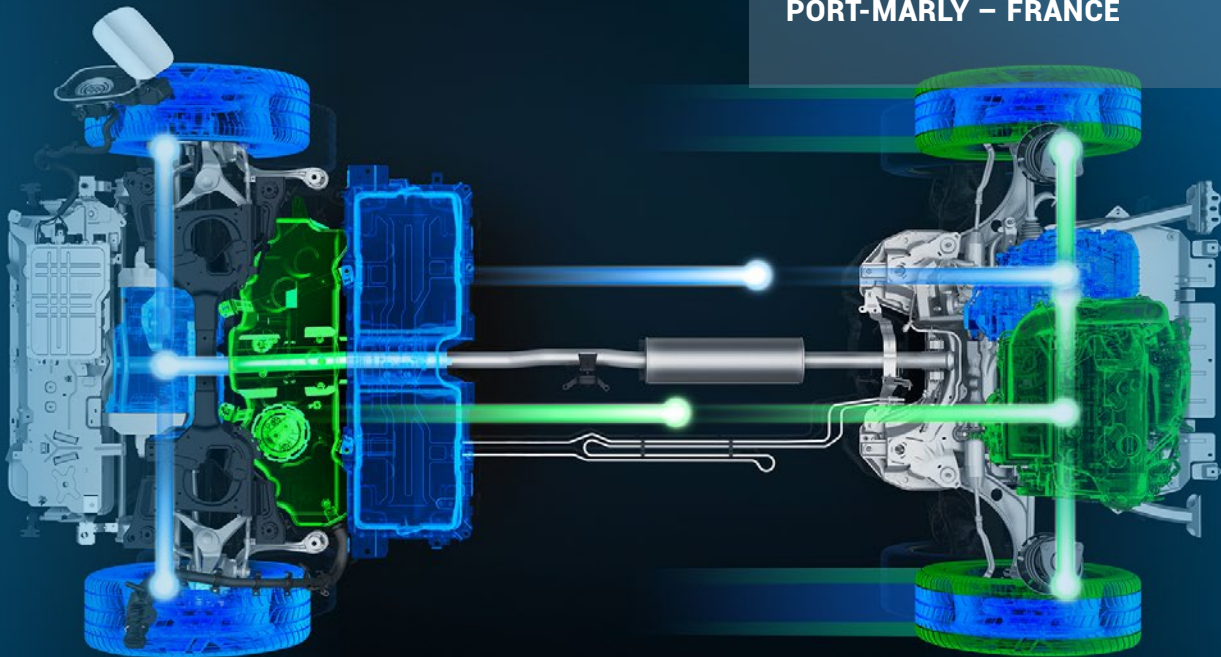
## POWER TRAIN & ELECTRONICS

Hybrid and Pure Electric Drivetrain Technologies  
for Next Decade Low Carbon Mobility

Deadline for  
abstracts  
submission  
**4 DECEMBER  
2020**

**9 - 10 JUNE 2021**

**LES PYRAMIDES  
PORT-MARLY – FRANCE**





**Frédéric DUBOIS**  
Congress co-Chairman,  
Groupe PSA



**Denis GRIOT**  
Congress co-Chairman,  
Freescale EMEA



**Philippe SCHULZ**  
Congress co-Chairman,  
Groupe Renault



**Philippe BERNET**  
Congress General  
Secretary

The **SIA Powertrain** Organising Committee and the **SIA Automotive Power Electronics (APE)** Organising Committee consolidate their successful cooperation to prepare next year **SIA POWER TRAIN & ELECTRONICS // Paris 2021 conference**.

SIA POWER TRAIN & ELECTRONICS conference will address the **full spectrum of electric and hybrid drivetrain technologies** paving the way of mobility decarbonization.

Along with drivetrain technologies, special focus will be put on two important topics:

- > **Electromobility ecosystem** including charging infrastructure as a key factor for low and zero carbon technologies widespread.
- > **Eco-responsible design** covering entire product life cycle from emission, energy and resources viewpoint.

Many collaborative initiatives in drivetrain research field are undertaken to support industry recovery. Our conference is aiming at being a forum for them and for **Automotive and Electronics industry sectors joint initiative in particular**.

THE 2021 SIA POWER TRAIN & ELECTRONICS CONFERENCE IN PARIS, WILL ADDRESS THE COMPLETE POWERTRAIN TECHNOLOGY SPECTRUM OF ELECTRIC AND HYBRID DRIVETRAIN TECHNOLOGIES.

The last edition of SIA POWER TRAIN & ELECTRONICS conference in Paris held on June 2019 was again a great success, with 770 participants from 17 countries, 63 scientific and technical presentations, 2 panel sessions on energy and with top-level representatives of OEMs and Tier1 companies.

Finally, on behalf of the Organizing Committee, we would like to invite all the powertrain engineering and scientific communities to submit abstracts on any of the related conference topics through this **Call for Papers**.

We look forward to welcoming you in Port-Marly on June 2021!

## TOPICS TO BE ADDRESSED

### 1. Electrified Thermal Engine Technologies

**Chairman - Gaëtan Monnier, IFPEN**

- > High efficiency combustions
- > Thermal engine technologies (Injection, EGR, Water Injection...)
- > Thermal energy recovery

### 2. Electric Machines & Power Electronics

**Chairman - Jochen Langheim, STMicroelectronics**

- > Electric machines
- > Power electronics

### 3. Electrified Propulsion Systems

**Chairman - Christophe Callens, Valeo**

- > Mild hybrids & 48V systems
- > Hybrid systems & Transmissions (AT, HEV, DHT, EV)
- > After-treatment & electrification
- > System engineering, control & energy management
- > Battery systems (pack, cooling...)

### 4. Electric Mobility Ecosystem

**Chairman - Bertrand Largy, SIA CE VEEE**

- > Charge infrastructure, V2X, power generation
- > Battery cell roadmap (technologies and chemistry)
- > New services

### 5. Eco-Responsible Design

**Chairman - Emmanuel Jean, Faurecia**

- > Emission regulations, RDE, air quality
- > CO<sub>2</sub>, GHG emissions, WTW
- > LCA (cradle to grave), resources, recycling

## COMMITTEES MEMBERS

### Conference Chair

Frédéric DUBOIS, Groupe PSA  
Denis GRIOT, Freescale EMEA  
Philippe SCHULZ, Groupe Renault

### Steering Committee

Philippe BERNET, PWTE 2021 General Secretary  
Christophe CALLENS, Valeo  
Noureddine GUERRASSI, BorgWarner  
Hervé GROS, SIA  
Emmanuel JEAN, Faurecia  
Jochen LANGHEIM, STMicroelectronics  
Bertrand LARGY, SIA EV expert community chairman  
Gaëtan MONNIER, IFP Energies Nouvelles  
Joël OP DE BEEK, Plastic Omnium

### Organizing committee

Nadim ANDRAOS, FEV  
Molly BOISSIER, SIA  
Jean-Marc BOULARD, AVL  
Pierre DURET, IFP School  
Omar HADDED, Drive System Design  
Olivier IMBERDIS, IAV  
Geoffroy MARTIN, Mov'eo  
Dominique MARTINEAU, Vitesco Technologies  
Jean-Michel MORELLE, Valeo  
Sébastien POTTEAU, Emitech  
Rémy SCHMITT, Robert Bosch

### Scientific Committee (non-exhaustive list)

#### Session 1. Electrified Thermal Engine Technologies

Philippe DE ARAUJO, Garrett Advancing Motion  
Frédéric DUBOIS, Groupe PSA  
André JARASSE, Groupe Renault  
Ali MOHAMMADI, Toyota Motor  
Virginie MOREL, ARAMCO  
Daniel ROETTGER, Ford  
Tolgo UHLMANN, FEV  
Marc SENS, IAV  
Philippe SOUHAITE, Groupe PSA  
Jules-Joseph VAN SCHAFTINGEN, Plastic Omnium

#### Session 2. Electric Machines & Power Electronics

Olivier COPPIN, Faurecia  
Manuel GÄRTNER, STMicroelectronics  
Eric GIMET, Groupe PSA  
Denis GRIOT, Freescale EMEA  
Kimimori HAMADA, APE Japan  
Thomas HARDER, ECPE  
Gilles LE CALVEZ, VEDECOM  
Petra MÖNIUS, Vitesco Technologies  
Jean-Michel MORELLE, Valeo  
Mark MUNZER, Infineon  
Sophie PERSONNAZ, Valeo  
Olivier PLOIX, Groupe Renault  
Olivier POLA, Vitesco Technologies

#### Session 3. Electrified Propulsion Systems

Jean-Marc BOULARD, AVL  
Clément DUMAND, Groupe PSA  
Denis LEVASSEUR, Groupe Renault  
Dominique MARTINEAU, Vitesco Technologies  
Jean-Philippe MERCIER, Groupe Renault  
Steffen MEYER, BorgWarner  
Jérôme MORTAL, Valeo  
Luc MÜLLER, Schaeffler  
Sébastien POTTEAU, Emitech  
Yannick RAYNAUD, Plastic Omnium  
Cédric ROUAUD, Ricardo  
Erwann SAMSON, Groupe PSA  
Marc SENS, IAV

#### Session 4. Electric Mobility Ecosystem

Thierry BRINCOURT, EDF  
Nicolas LECLERE, Groupe PSA  
Pascal MALAVERGNE, Groupe Renault  
Olivier PATURET, Charing  
Saft  
Schneider Mobility

#### Session 5. Eco-Responsible Design

Philippe CHINA, Total  
Catherine GIRARD, Groupe Renault  
Vincent HEURTIER, IAV  
Marc LEJEUNE, Volvo  
Hans NUGLISCH, Vitesco Technologies  
Joël OP DE BEEK, Plastic Omnium  
Sophie RICHET, Groupe PSA  
Vincent ROSENTHIEL, AVL  
Rémy SCHMITT, Robert Bosch  
Cyprien TERNEL, IFPEN



# SIA POWERTRAIN & ELECTRONICS

## PARIS 2021

Hybrid and Pure Electric Drivetrain Technologies for Next Decade  
Low Carbon Mobility

• SUBMISSION DEADLINE  
• 4 DECEMBER 2020  
• To be sent back to  
• [molly.boissier@sia.fr](mailto:molly.boissier@sia.fr)

### Abstract

**Company + Name, position & email of the main contact:**

**Title of paper:**

**Topics (1 choice only – see page 2):**

**Abstract (Max. 1500 characters):**

**Relevance and innovation of your presentation:**

**Comments:**



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### IMPORTANT INFORMATION & DEADLINES

Speakers will be allocated 25 minutes each (20 minutes for presentation and 5 minutes for questions).

All necessary instructions for the preparation of the paper will be sent to the authors after selection.

The lead author (one per paper) will benefit a free access to the conference and meals, 2 co-authors max will benefit from a discount.

- › Conference language: **ENGLISH**
- › Proposals for papers must reach us by **4 December 2020**.
- › The successful papers will be selected by the Committees and authors will be notified accordingly in January 2021.
- › Successful authors commit themselves to produce a Full Paper (6-8 pages) by 7 May 2021 for inclusion in the conference proceedings. Presentation must be sent to the SIA by **28 May 2021**.

### The authors

#### About the main speaker:

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E-mail : .....

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E-mail : .....

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Position : ..... Company : .....  
Full address : .....  
Phone : ..... Cell : .....  
E-mail : .....

### ATTENTION

Only the main speaker is free of participation fees.

2 co-authors can benefit from discount fee if and only if they are listed below.



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### About the co-authors#5:

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### About the co-authors#6:

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### About the co-authors#7:

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E-mail : .....

